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The Tech
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Friday, September 23, 2016

WEATHER, p. 2
FRI: 85°F | 56°F Partly cloudy
SAT: 67°F | 51°F Partly cloudy
SUN: 64°F | 44°F Clear skies

New House pipes leak despite being fixed last fall

Around 9 p.m. Wednesday evening, a water pipe in iHouse, part of House 1 of New House, started to leak and caused ceiling tiles to fall.

iHouse resident Burhan Azeem '19 worried about the leak: "there is some concern that [the pipes] are still leaking since they were supposed to fix Houses 1, 2, and 3."

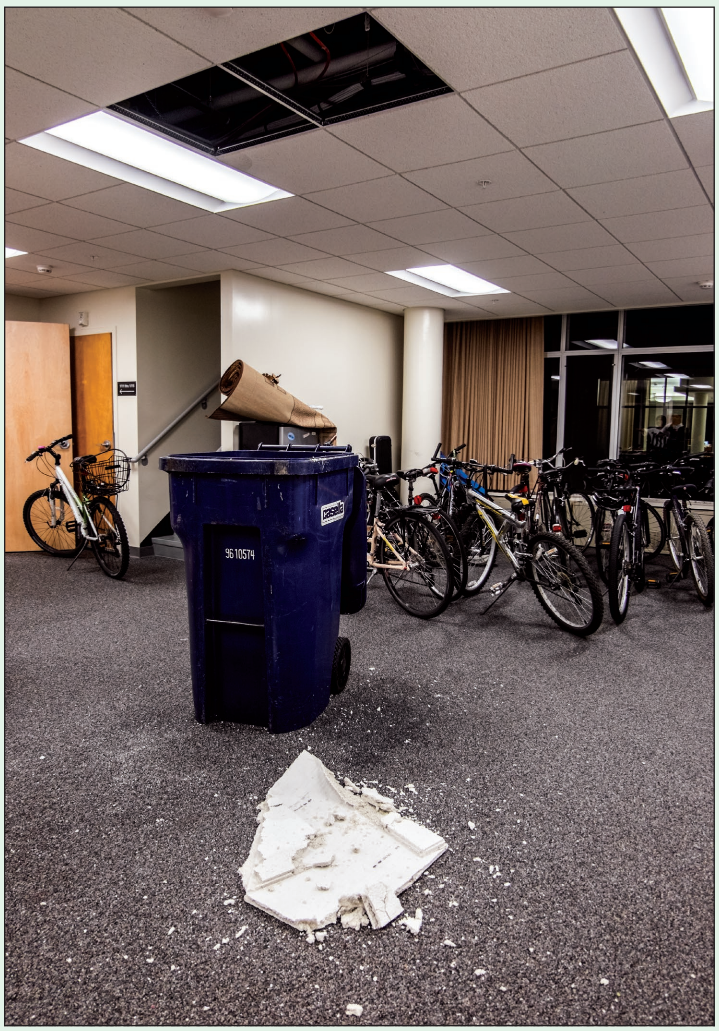
Azeem described the actual leak as "a slow drip, about a drop every minute, minute and a half. It's the build-up that caused the ceiling tile to fall."

Although the leak was fixed relatively quickly — by midnight — Azeem describes the situation as "a little frightening".

"No one got hurt," Azeem said, "it got back to normal pretty quickly."

New House's Head of House and Area Director were not immediately available for comment.

—Olivia Brode-Roger



LENNY MARTINEZ—THE TECH

A ceiling tile lies broken on the floor after pipes in the ceiling of the first floor of House 1 in New House started dripping on Wednesday.

Career Fair to feature more startups, non-profits, gov't groups

Employers have signed agreement to speak to students of any year, major

By Marie Patino

Career Hack sessions, student lounges, and a feedback system are all new features of this year's Career Fair, taking place today in the Johnson Athletic Center and Rockwell Cage.

The changes are meant "to enhance the diversity of employers represented at Career Fair in terms of industry, size, recruiting demographic, and corporate/government/non-profit status," according to a memo sent to *The Tech* by Career Fair Directors.

Furthermore, for the first time, this year's employers were required to sign an agreement that representatives from their companies "will speak with any student who approaches them, regardless of their year, major, or previous experience."

Last year's Career Fair was criticized for primarily featuring large, major companies. This year's fair will feature more startups and nonprofit organizations: 82 companies with fewer than 50 employees are taking part in the fair.

New this year, startups and nonprofits have the option to be reimbursed for travel expenses up to $500. The cost of getting a booth will continue to be substantially lower, at $500, for these small companies. (For larger companies, prices range from $1,250 for a Rockwell booth to $18,000 for a "Platinum Sponsorship" which includes a booth in a custom location.)

This year, booths for startups and underrepresented companies will be located in a "highlighted" area meant to attract students, featuring a student lounge and a professional headshot photographer.

Two student lounges have been added to provide students with a safe space with tables and chairs that they can relax in before jumping into the jungle of potential employers. Students will be directed to the area with extensive signage.

In addition, the GECD is offering Career Hack sessions for students to discover new career paths through several panels. A session entitled Careers for the Social Good will take place in Kresge Little Theater at 10:30 a.m.

Students will also be able to fill in a feedback form on the Career Fair website at the end of the fair and suggest possible ways to improve the event.

The Career Fair is taking this direction after several students reached out to the UA last year seeking to bring actors involved in social change to MIT's fair in addition to established companies.

Andy Trattner '18, one of the students initially interested in making changes to Career Fair, insisted on the importance that students not see the fall Career Fair as the only occasion to find a job or summer internship.

"It is not the only opportunity to get a job for MIT students, there are tons of other options," he said. In particular students should know about smaller actors advocating for social change, development, and innovation.

In their move to promote diversity among companies at the fall fair, the Career Fair Directors seem to be moving in this new direction.

The 418 potential employers at this year's fair have also been asked to identify the skills they are looking for, in addition to majors. Next year, the Career Fair team plans to match employers and students based on skills, rather than on course number alone.

Santiago Ospina contributed reporting.

DormCon plans for New House closure

To advise Chancellor, VPSL on housing the displaced students in other dorms

By William Navarre
EXECUTIVE EDITOR

Chancellor Cynthia Barnhart PhD '88 and Vice President for Student Life Suzy Nelson have asked DormCon to begin looking into how to re-house New House residents who will be displaced when that dorm closes for renovations at the end of this academic year.

DormCon President Kate Farris '17 and Vice President Yuge Ji '18 emphasized that Barnhart and Nelson would be making final decisions, and that it will not be DormCon's role to sit down and design the solution. Rather, it will be DormCon's role to advise on the different tradeoffs that the administrators will consider and will weigh in on the process that the administrators will follow as they reach their decisions.

Farris said that the administrators are considering a variety of options, including housing students in undergraduate dormitories, the graduate dormitory Tang Hall, and willing FSILGs.

In response to *The Tech*'s inquiry about potentially distributing New House residents across undergraduate dorms, Barnhart said last Sunday that "no decisions about next steps have been or will be made" until engaging with all New House residents and Heads of House.

DormCon members discussed the likely prospect of New House residents moving to other undergraduate dorms, at times as if it were a certainty.

"We are essentially going to be… guests in your dorms for the next two years," New House President Sarah Wharton '17 said at Thursday's DormCon meeting, interrupting herself mid-sentence to discuss whether to qualify the statement with a "possibly." The consensus was that the qualification was not needed.

DormCon members brainstormed some of the difficulties of housing New House residents in other dorms. Without plans to reduce next year's freshman class size, whether everyone would fit remains a major concern.

Farris said that administrators probably won't be able to provide concrete capacities for each dorm until mid-October at the earliest. She said that they will take a variety of factors into account when calculating the capacity, particularly that rooms should offer at least 90 square feet per

New House, Page 3

IN SHORT

This semester's final exam schedule has been released and can be viewed at *http://finals.mit.edu.*

MIT Medical will hold walk-in flu shot clinics from 10 a.m. to 4 p.m. on Oct. 5 in Walker Memorial.

Send news and tips to *news@tech.mit.edu.*

UA to become more proactive, Liu says

The Undergraduate Association had its first Council meeting last Wednesday, discussing nominations to the Committee on Academic Performance, approving the budget for the year, and changing the Financial Board's bylaws and procedures to sanction funding violations.

Sophia Liu '17 led the meeting. After a medical emergency forced her to temporarily turn over responsibilities to VP Daysi Gomez '18, she returned to MIT on Saturday and resumed her role as UA President.

"It was very nice to see people walking in [to the meeting]," Liu commented.

In an interview after the meeting Liu outlined her four main goals for the next year: keeping talent in the UA, building a good relationship with Vice President for Student Life Suzy Nelson, continuing respectful relationships with administrators, and becoming more responsive to student needs.

In particular, Liu hopes that the UA becomes much more active: "We often wait and discuss things that could just be done. We should make a lot of little things happen." Liu gave the example of dorms having many good ideas that would benefit the entire undergraduate community.

Liu's most public project last year was *The Byte*, a weekly newsletter advertising events around campus. This role has now shifted to the secretary, Alexa Martin '19 who will send out the first *Byte* next week.

The Council is in charge of supervising the UA. It approves major UA actions such as funding, nominations, and amendments. It is unusual in that the UA has no control over its membership: it is formed by a representative of every dorm (usually the president), four members of the Inter-Fraternity Council, three members of the Pan-Hellenic Association, one member of the Independent Living Group Council, and one off-campus representative.

—Olivia Brode-Roger

THE FUTURE OF CAMPUS

The need for students' input. **OPINION, p. 4**

A BRAZILIAN SUMMER

Education, computers, and lack thereof.
CAMPUS LIFE, p. 5

A MUSICAL DELIGHT

Sunday in the Park with George.
ARTS, p. 7

A DAZZLING OPERA

Dimitrij in concert.
ARTS, p. 6

HOME LOSS FOR FOOTBALL TEAM

Players take a knee during anthem.
SPORTS, p. 12

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WEATHER

Cool and clear weekend ahead

By Lily Dove
METEOROLOGIST

After a warm day, a cold front will come through tonight, bringing some chance of rain and a cool weekend to sweep away the stress of career week. A high pressure system will come in to bring clear skies and temperatures in the mid-60°s to the Boston area for the weekend, serving as a friendly reminder that the first official day of autumn was Wednesday, September 21. The clear skies and high visibility may give everyone a reason to smile on Monday morning.

As we enter fall, approximately two-thirds of the North Atlantic hurricane season is behind us. The final third of the season typically brings approximately 20 percent of the storms, including some of the most destructive ones in recent memory; for example, the anniversary of Hurricane Sandy's landfall in the U.S. Northeast is four years ago this October. As the weather begins cooling down, keep an ear out for storms forming out in the Atlantic; hurricanes have been recorded as making landfall as late as the week before Thanksgiving.

Extended Forecast

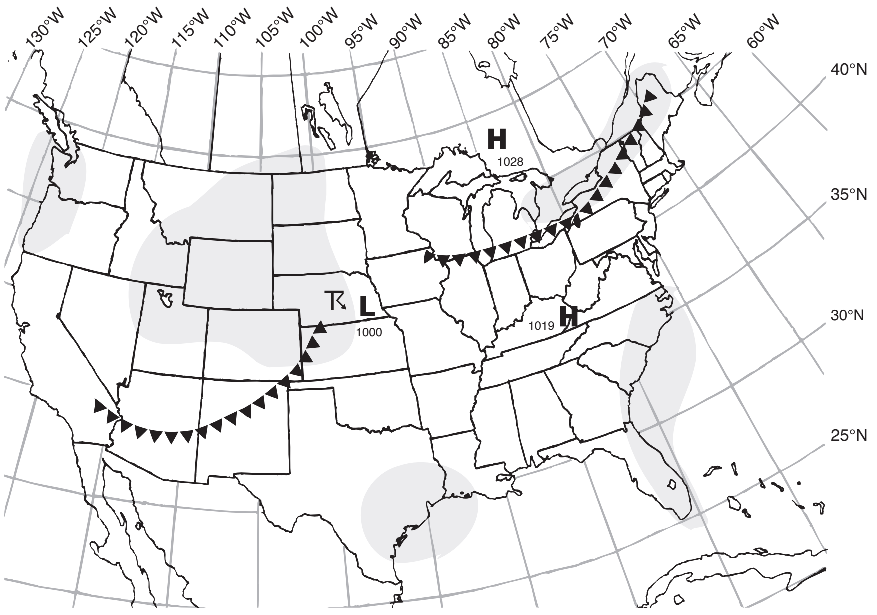
Today: High of 85°F (29°C). Partly cloudy. Winds from southwest at 5-10 mph.

Tonight: Low of 56°F (13°C). Chance of rain overnight. Winds from north at about 10 mph.

Tomorrow: High of 67°F (19°C). Partly cloudy. Winds from north at about 10 mph.

Sunday: High of 64°F (18°C). Clear skies. Winds from northwest at 5-10 mph.

Monday: High of 64°F (18°C). Clear skies. Winds from northwest at 5 mph.



Situation for Noon Eastern Time, Friday, September 23, 2016

Weather Systems	
H	High Pressure
L	Low Pressure
§	Hurricane

Weather Fronts	
▬ ▬ ▬	Trough
◗◗◗◗	Warm Front
▲▲▲▲▲	Cold Front
▲◗▲◗	Stationary Front

Precipitation Symbols	Snow	Rain
Showers	*▽	•▽
Light	*	•
Moderate	**	• •
Heavy	⁂	∴

Other Symbols	
≡	Fog
☈	Thunderstorm
∞	Haze

Compiled by MIT Meteorology Staff and *The Tech*

ANSELMO CASSIANO

Students watch as Chief Sailing Instructor Eric Gibber demonstrates how to safely leave the dock during the last recreational sailing class of 2016 on Thursday. The MIT Sailing program, considered to be the largest recreational collegiate sailing program, certifies around 1,400 new members from the MIT community every year.

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Impact Week

dare to make a difference

Tegmark · Mon 9/26 · 5-6pm · 4-163
Glennerster · Tue 9/27 · 4-5pm · 3-133
Career Panel · Wed 9/28 · 6-7pm · 54-100
Humane League · Thu 9/29 · 5-6pm · 4-163
80,000 Hours · Sun 10/1 · 2-6pm · 35-225

Visit: ea-mit.org/events or facebook.com/groups/eamit

SH pres cautions likely host dorms

Rent hike, meal plan, worry NH

New House, from Page 1

roommate.

Wharton said that a survey will go out to New House residents today to find out how many students feel strongly about remaining with their living group within New House, and whether they have specific ideas about where they would like their living group to relocate.

Keeping living groups together is likely to be one of the tradeoffs that DormCon advises administrators to consider.

Senior House President Sarah Melvin ’18 advised the rest of DormCon to consider the “long-term effects” of accepting students into their dorms and how that can have consequences for dorm culture.

“We are still dealing with the aftermath” of accepting “a large quantity of Bexley,” she said. She explained that Senior House had cleared a whole hallway for the displaced students, but said that when they graduated and moved out, the rooms were empty and were filled with freshmen.

“That’s still a hallway not really integrated with the rest of the house,” she said.

Wharton confirmed at the meeting that it remains very much on her mind whether New House will remain a tier 2 dormitory or if residents will face a rent hike when they return to a renovated dormitory.

She also expressed concern that residents, accustomed to living in a cook-for-yourself dormitory, would face hardship if they were forced to purchase a meal plan they may not want or may not be able to afford.

DormCon members hinted that the rehousing may have significant consequences for the distribution of incoming freshmen: if McCormick Hall is to remain female-only while still doing its part to take on additional residents, it likely won’t be by taking on current New House residents accustomed to a co-ed living environment. Instead, it will be additional freshmen that will live there.

MIT ALUMNI ASSOCIATION
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MIT ALUMNI

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E-mail join@tech.mit.edu

Solution to Crossword

from page 8

S	H	I	N	S		O	G	L	E		B	V	D	S
C	O	C	O	A		K	O	A	N		L	I	E	U
A	P	E	R	Y		C	O	M	B		A	N	N	E
M	I	S	T	Y	C	O	P	E	L	A	N	D		
			H	E	A	R		N	O	D	D	I	N	G
A	R	M		S	C	R	A	T	C	H		C	O	M
L	E	A	P		H	A	S			O	M	A	N	I
M	I	C	H	A	E	L	C	R	I	C	H	T	O	N
O	N	A	I	R			O	E	D		Z	E	N	O
N	E	D		B	E	E	T	L	E	S		D	O	R
D	R	A	G	O	U	T		L	S	A	T			
		M	A	R	G	A	R	E	T	C	O	U	R	T
B	R	I	M		E	L	A	N		R	I	P	E	R
L	U	A	U		N	I	N	O		E	L	O	P	E
T	E	S	T		E	A	T	S		D	E	N	S	E

Solution to Sudoku

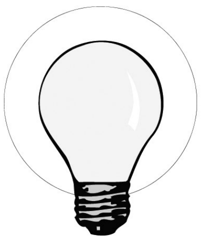
from page 8

5	3	9	7	2	4	1	8	6
7	2	1	8	6	9	3	4	5
4	6	8	1	3	5	7	9	2
3	9	7	2	4	6	8	5	1
8	4	2	5	1	3	9	6	7
6	1	5	9	7	8	2	3	4
2	5	3	6	8	1	4	7	9
9	7	4	3	5	2	6	1	8
1	8	6	4	9	7	5	2	3

Solution to Techdoku

from page 8

6	4	2	1	3	5
5	3	1	6	2	4
2	6	4	3	5	1
4	2	6	5	1	3
3	1	5	4	6	2
1	5	3	2	4	6



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KENSHO

transform() the world to fit() the future

```
X = SparseAutoEncoder(num_hidden=10).fit_transform(features)
xycoords = TSNE(random_state=17).fit_transform(X)
DBS = cluster.DBSCAN().fit(X)
plt.scatter(xycoords[:, 0],  xycoords[:, 1], color=colors[DBS.labels_])
```

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LETTERS TO THE EDITOR

Students must shape the future of MIT’s campus

By Arturo Chavez-Gehrig

Students new to MIT must have noticed the construction sites spread around campus. Those of us who are returning recognize the sight of cement mixers and tower cranes on our way to class. Our campus evolves each year as new spaces are established and buildings are erected.

According to MIT 2030, “Between 1998 and 2010, MIT renovated 875,000 gross square feet (gsf) of existing buildings and completed over 2.6 million gsf of new construction.” To put that number into perspective, the area of a football field is less than 58,000 square feet.

Despite the scale of this work, it can be easy to dismiss the importance of these projects. Who has time for anything besides PSETs, right? However, it is not without thorough consideration by administrators, faculty, and students that campus concepts become realities. Student involvement in these processes are fundamental to improving the undergraduate and graduate experiences on campus.

At MIT, there is no shortage of things to do. Still, the importance of student advocacy for campus planning purposes cannot be overstated. Simply ask yourself: would even the most meticulous campus planning professional expect that the basement tunnels would become the equivalent of a ski slope for office chairs? Or that the Baker House roof would become a launchpad for pianos? Or that McDermott Court would be the crash site of frozen pumpkins?

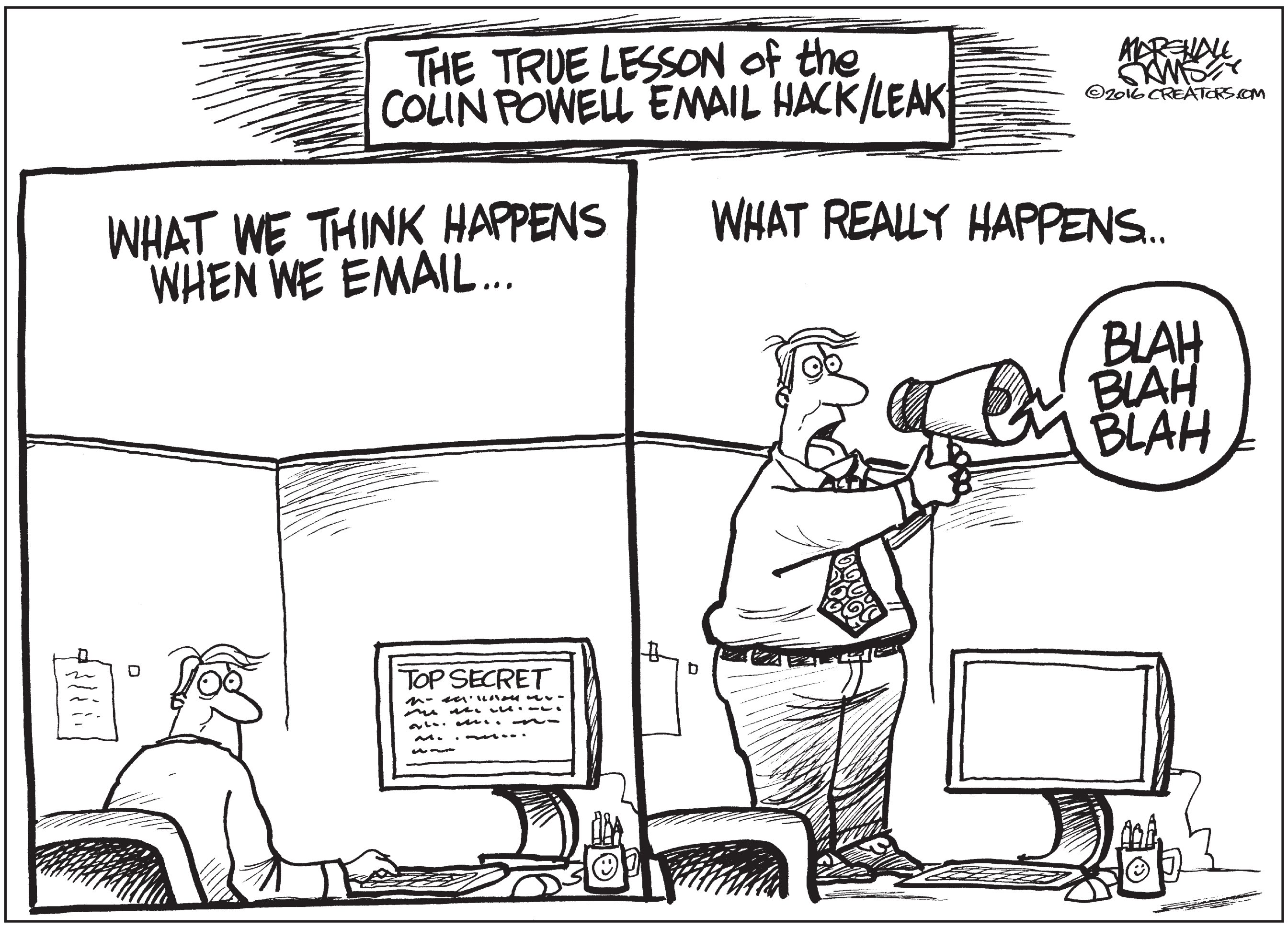
As insiders, we students have a crucial perspective on the campus. MIT has become a part of our identities, so we should take part in shaping its future image. After graduation, our alma mater will play a role in defining us in the eyes of our employers, colleagues, and maybe even friends. Take MIT Hacking Rule #4 to mind, hand, and heart: “If you find something broken, call F-IXIT… [hackers] may see problems before anyone else.” Consider this your call to action, your duty as a student to leave MIT a better place than when you arrived.

Last spring, the UA Campus Planning Committee held the “Vision of MIT Essay Contest” to give undergraduates the chance to share their solutions to challenges faced by our community. We received many excellent submissions, with a variety of solutions for many issues. George Friedlander, Mehitabel Glenhaber, Teresa de Figueiredo, and Veronika Jedryka wrote winning submissions. Their visions included initiatives for outdoor lighting improvements related to mental health, an open campus to welcome visitors from the local community, and dedicated spaces for preventative mental healthcare in addition to the current reactionary care. Planning our physical campus plays a fundamental role in the discussion of sustainability and mental health. MIT can set the example for the rest of the academic world to follow, demonstrating more sensible practices.

It is clear that our community faces tremendous challenges related to the campus infrastructure, but with them there are also great opportunities for positive change. Some dormitories need to renovated, while others need to be constructed from scratch. Community, cultural, and maker spaces can be improved and redesigned to satisfy our wide-ranging interests. As we walk to class, we see glimpses of the future, such as when the Ford-MIT Alliance’s LIDAR electric vehicles shuttle classmates around campus. These are all current plans, requiring greater student involvement to become realities.

As a student spending hours in the classroom, lab, and library, you have your own thoughts about how to improve experiences for everyone. Please share these ideas with fellow students, administrators, and the UA Campus Planning Committee. It is exciting to think about the future of MIT, to imagine what great discoveries, inventions, and events will take place here now and in the future. Even with an incredible history of accomplishments, MIT is a place focused on the future. Now that all dorms have been provided with hand soap in the bathrooms, we can move on to more interesting discussions about next steps for our beloved institute. Join the conversation!

Arturo Chavez-Gehrig is a member of the Class of 2018 and the chair of the UA Campus Planning Committee.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MARSHALL RAMSEY
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WHAT WE THINK HAPPENS WHEN WE EMAIL…
TOP SECRET
WHAT REALLY HAPPENS..
BLAH BLAH BLAH

CORRECTIONS

An article published Sept. 14 named Ji Yuge as DormCon vice president. In fact, her name is Yuge Ji.

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A MISTI SUMMER

Looking back and moving forward

Reflections on a summer in the Brazilian education system

By Garrett Souza

The room lacked character. A single barred window, which overlooked the students' courtyard, was the only thing interrupting the bare dominion of bleach-white walls. Several tables huddled together at the center of the room, each sporting materials for the workshop that was about to take place. On the door, a small SEEDUC (Secretaria de Estado de Educação) insignia hung above a laminated sign that read "Formação STEM Brasil" (STEM Brazil Formation).

The office of the Secretary of Education in Rio de Janeiro hosted a series of workshops for public school teachers last July. The workshops introduced them to new activities and experiments that could be implemented in the classroom. As an intern for World Fund STEM Brazil through an MIT-Brazil program fellowship, I was tasked with incorporating coding into these activities, as well as with finding a way to introduce the subject to teachers without inducing terror and confusion.

One by one, the teachers slowly trudged into the barren room on the day of the workshop. Twelve were expected. Four showed up, each noticeably burdened by the crippling weight of their apprehensions and hopelessness. Bruno, the leader of the workshop, hoped that traditional Brazilian tardiness was at fault for the lack of attendance, yet his intuition told him otherwise. Nevertheless, it began.

An overview of the program preceded hands-on activities in which the teachers completed experiments based on the subjects that they taught. Hopefully, they would then incorporate the activities into their daily curriculums. Two chemistry teachers were hunched over in one corner, mixing murky solutions as a flask filled with purple liquid boiled behind them. A physics and a math teacher were at the other end of the room fashioning a seismograph out of gelatin and popsicle sticks. Smiles slowly began to creep onto their faces, as if they were becoming reacquainted with a long-lost friend. It had been a while since education was fun.

> **There was the comical irony of an MIT student attempting to incorporate computer programming into schools that lacked functioning computers.**

In Rio de Janeiro, schools are epicenters of change and microcosms of a nationwide political dilemma. During our lunch break, as we indulged in the customary meal of fried chicken over a mound of rice and beans, teachers began to recount their tales from the educational front. There were stories of misbehaving children, misunderstood lessons, and misappropriated funds.

One of the teachers, an aged woman with a pair of black pointed glasses that rested precariously on the edge of her nose, sat forlornly at the end of the table. She shielded her brow while her thumb meticulously prodded the web of wrinkles around her temple, as if she were manually searching her mind for some piece of knowledge that she stored long ago and desperately needed now. Hesitantly, she leaned forward and entered the lunchtime debate, visibly upset by the anecdotes she was hearing. As she spoke, her voice slowly began to climb with a crescendo of desperation; her face clenched and rosy pools of anger accumulated in her cheeks.

As my Portuguese was failing me, I struggled to catch every word she said, but the theme was clear: conflict. Listening intently, I desperately tried to piece together the words I understood as though solving a verbal puzzle: "Computers… occupy movement… government… broken." Her cries flooded the room, drowning out the conversations of those around us with a fiery poignancy.

As she spoke, dozens of schools across the region were being occupied by students demanding educational reform. Young high schoolers, fed up with the country's lack of funding and dismal infrastructure, took over their schools and sought to enact change. Some chose to build by fixing their bathrooms and repainting the walls in an attempt to salvage some hope for a proper education. Others chose to destroy, wrecking classrooms and ravaging outdated and underfunded laboratories, refusing to tolerate anything less than what they deserve.

Meanwhile, the very teachers that worked in these schools were on strike, demanding better wages and more support from the government. Since the workshop took place over winter break, the discussion was riddled with uncertainty as to what would happen once school was in session. Could the teachers go back if the students were still occupying schools? Were the teachers and the students on the same side?

Having the opportunity to work with the educational system in Brazil, at such a transformational time in the country's history, gave me valuable insight into the importance of education and what it can mean for an individual in need. Within the powerful words of one teacher, I saw a challenging duality: Brazil, a nation in transition, was desperately trying to look toward a better future without abandoning the present.

There exists a frantic effort to salvage the remains of a system that breeds corruption and political fallout rather than engineers and mathematicians. There was the comical irony of an MIT student attempting to incorporate computer programming into schools that lacked functioning computers. There were teachers responsible for seventy students at a time, attempting to hand craft a future for each. However, through these murky and uncertain circumstances, a prevailing hope remained. The anger in the teachers' words was not born from defeat, but rather from passion and a willingness to give the next generation more.

Lunch finished, and we walked back to the SEEDUC building to continue the activities. We walked together: four teachers, two MIT students, and an educator, all from very different paths, yet each with a role to play in the struggle for educational reform.

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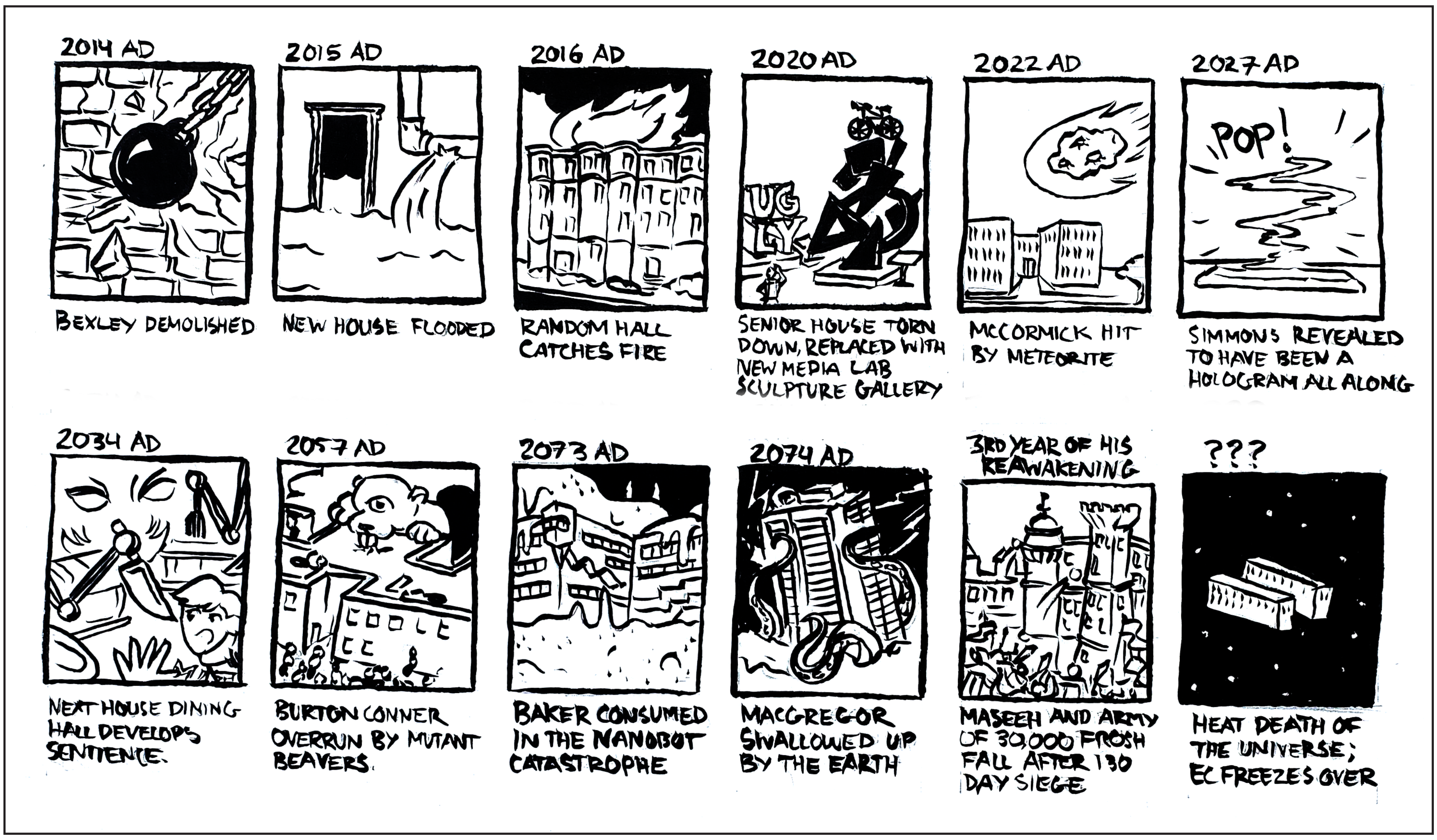
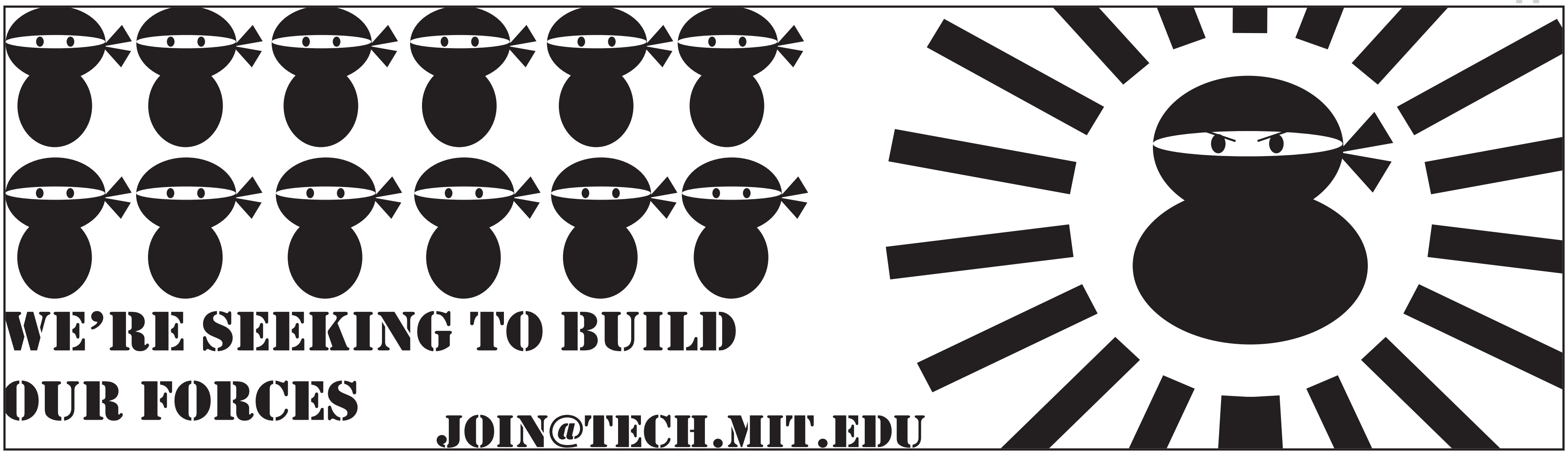
Dormpocalypse by Mehitabel Glenhaber


2014 AD
BEXLEY DEMOLISHED
2015 AD
NEW HOUSE FLOODED
2016 AD
RANDOM HALL CATCHES FIRE
2020 AD
UG LY
SENIOR HOUSE TORN DOWN, REPLACED WITH NEW MEDIA LAB SCULPTURE GALLERY
2022 AD
MCCORMICK HIT BY METEORITE
2027 AD
POP!
SIMMONS REVEALED TO HAVE BEEN A HOLOGRAM ALL ALONG
2034 AD
NEXT HOUSE DINING HALL DEVELOPS SENTIENCE.
2057 AD
BURTON CONNER OVERRUN BY MUTANT BEAVERS.
2073 AD
BAKER CONSUMED IN THE NANOBOT CATASTROPHE
2074 AD
MACGREGOR SWALLOWED UP BY THE EARTH
3RD YEAR OF HIS REAWAKENING
MASEEH AND ARMY OF 30,000 FROSH FALL AFTER 130 DAY SIEGE
???
HEAT DEATH OF THE UNIVERSE; EC FREEZES OVER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THEATER REVIEW

Connecting the dots in *Sunday in the Park with George*

Sondheim's musical tribute to Seurat is a delight to the eyes and ears

By Alexandra Sourakov
ASSOCIATE ARTS EDITOR

Having to get up early on a Sunday. I can't blame Dot for complaining as she dutifully models at the break of dawn for her lover, the painter Georges Seurat. You'd probably recognize the painting he's working on: it's one of the most reproduced and parodied paintings in the world.The TV show *The Office* used it as the cover photo for one of its seasons, but its greater claim to fame is in its pioneering use of pointillism, the artistic style in which the canvas consists, not of brushstrokes, but of dabs or "points" of color.

The painting in question, *A Sunday Afternoon on the Island of La Grande Jatte*, displayed at the Art Institute of Chicago, served as a theatrical and musical inspiration for Stephen Sondheim, who has been described as "the greatest and perhaps best-known artist in the American musical theater." For actor Chanler-Berat (Broadway's *Peter and the Starcatcher* and *Next to Normal*) and director Peter DuBois (*A Little Night Music*), who hopped on a plane to view the original painting, it was a source of creative energy.

The Tony Award-winning musical, *Sunday in the Park with George*, is comprised of two layers that, by the end, seamlessly fuse into one. The first stratum is a fictionalized account of Georges Seurat (Adam Chanler-Berat): working on his masterpiece in the year 1884, he simultaneously struggles to connect with the people around him, especially his devoted mistress Dot (Jenni Barber). The second is of Seurat's great-grandson, also an artist and also named George (also Adam Chanler-Berat), who is struggling to recapture his artistic vitality.

In Act I, we are introduced to each of the luscious characters that will eventually comprise the tableau — be prepared, there are a lot of them. We meet Jules, the pompous artist and Georges's "friend," Louis, the baker whom everyone loves and whom Dot eventually marries, and the grumpy sailor with a disobedient cardboard-cutout dog. There are German servants and vulgar Americans. There are secret trysts in the bushes and good old backstabbing among friends. With his paintbrush, Georges exercises the influence he does not have in real life and forces this madhouse to freeze, stand still, and face the way he wants it to. In Act II, George #2 is presenting his latest piece, *Chromolume #7*, an avant-garde tribute to Seurat's masterpiece. He ruminates on the state of arts. He is tired of making Chromolumes, but he needs the funding.

Chanler-Berat expertly conveys the loneliness and frustration of the artist. "Connect, George, connect!" he tells himself, but how can he when all he can think about is "Finishing the Hat"? The actors were in perfect synchrony with the music.

Director DuBois said that he really wanted to start off working on the music so that the actors would internalize it. They certainly did, as evidenced by Chanler-Berat's precisely timed paint-dabbing and by the skillful pitter-pattering of Jenni Barber's lovely voice as she fires off sixteenth notes in the title song "Sunday."

At first, I was thrown off because Acts I and II were so wildly different in terms of setting, ambience, and character development. It almost doesn't work. Sondheim establishes the musical bridge between the two acts, but what of the characters and the thematic element?

Chanler-Berat, who plays both Georges Seurat and his great-grandson, enables a beautiful transition. No longer bearded, but still endowed with the same artistic fervor, he is undoubtedly a "George," but manages to subtly maneuver around the trap of embodying the same character as in Act I. The finale bridges any enduring gap between the two acts as George reclaims his artistic inspiration by looking to the past.

The painter Seurat was fascinated by the idea of the observer's eye, rather than the painter, mixing the colors: seeing adjacent red and blue dots, for example, and interpreting them as a violet hue. In *Sunday*, Sondheim takes pointillism to the stage and to the score. Georges used only 11 colors in the painting. Guess how many musical instruments are used in the orchestra?

Each instrument is a soloist; it is your ears that do the mixing. Each character is a dab of color and can be inspected individually. But take a step back, and now this person is a part of the larger canvas of society. Your eye mixes his native hue with the hues of those around him, of the relationships he forms, of the role he plays — and voilà, "no man is an island."

The Huntington Theatre is on an ambitious quest to stage all fifteen of Sondheim's productions. This is their second. In the words of director DuBois, "We are in a town where people like to geek out over certain things, and Sondheim is amazing to geek out on." Well, count me in.

★★★★☆

Sunday in the Park with George

Directed by Peter DuBois

Starring Adam Chanler-Berat and Jenni Barber

Music and lyrics by Stephen Sondheim

Huntington Theatre Company

Avenue of the Arts / Boston University Theatre

Sept. 9 - Oct. 16, 2016

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OPERA REVIEW

A rare gem: Dvorák's only grand opera *Dimitrij* performed in concert

Specializing in the obscure, Odyssey Opera dazzles in its September showcase

KATHY WITTMAN

Olga Jelinkova as 'Xenie' in Dimitrij.

By Ray Wang
STAFF WRITER

Grand opera is not for the faint of heart. Telling a sweeping tale of the struggle for the throne in tsarist Russia, *Dimitrij* clocks in at nearly four hours across four acts. This rare opera, chosen and conducted by artistic director Gil Rose of Odyssey Opera, is epic, luscious, and riveting to the last note. It truly lives up to its genre.

A one-night performance, *Dimitrij* is the perfect fare for a company as unique and talented as Odyssey. Every second week of September, the fledgling company selects a rarely-performed opera as a one-time engagement — in just four years, Odyssey has garnered well-deserved critical acclaim for its creative efforts.

Dimitrij would have been difficult to fully stage given its requirement for a massive cast, but this performance took a much simpler route. With the singers standing at the edge of the stage and backed by the orchestra and the chorus behind them, no sets or costumes were required. But that didn't diminish the effect of the plot. The story is incredible, and I found myself enjoying the process of reconstructing the visuals in my mind as I was dazzled by the sounds.

Almost entirely grounded in truth, the opera picks up the story of the struggle for the throne after Tsar Boris Godunov's death in 1605. Godunov's son and widow have been murdered, leaving his daughter Xenie an orphan. Another man lays claim to the throne, asserting he is Dimitrij, son of Godunov's predecessor, Ivan the Terrible.

When Marfa, Ivan's widow, claims to recognize him as her son out of admiration for his character, Dimitrij ascends to the throne, much to the anger of his enemies. The story comes to a head when Dimitrij, alienated from his power-hungry wife Marina, falls in love with Xenie — but Marina reveals to him his true lowly origins and has Xenie murdered.

Dimitrij, torn apart by the double loss, refuses to allow Marfa to come to his defense, succumbing to a bullet at the hands of his enemy, Prince Šujskij (Mark Doss).

During the intermission, I spoke to one of the members of the chorus who had retreated into a reception area. She was seated, jotting notes in her music, as I approached her and struck up conversation. I discovered she had been chaplain of MIT for fifteen years, and she described how all the chorus members were volunteers participating simply for their love of opera — she had been practicing for three weeks to prepare for this one.

According to her, Odyssey had acquired Czech opera singers for the sole purpose of this performance — and the opera was so obscure that they had not even heard of it.

Czech tenor Aleš Briscein sung the part of *Dimitrij*. His voice was alluring and clarion — a stark contrast from the sonorous and rumbling sounds of the other male singers, all bass-baritones.

Olga Jelínková was hauntingly good in the part of the frail and tortured Xenie. In the second act, as Dimitrij encounters her in a graveyard, they have a beautiful duet — he professes his love for her, and she, not knowing who she's speaking to, shuns him in her sorrow.

Marina, sung by Dana Burešová, was the most elaborately dressed. In a flowing cape gown, she exemplified haughtiness and regality, in contrast to her competitor, Xenie.

The opera was further bolstered by an excellent orchestra and chorus. Much of the score was forte, and the impressive acoustics in New England Conservatory's Jordan Hall made every note distinct and powerful. The cozy concert hall is a treat in and of itself; I would go back for any performance for the acoustic experience.

Dimitrij

Performed by Odyssey Opera

Written by Antonín Dvorák

NEC's Jordan Hall

September 16, 2016

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Sudoku

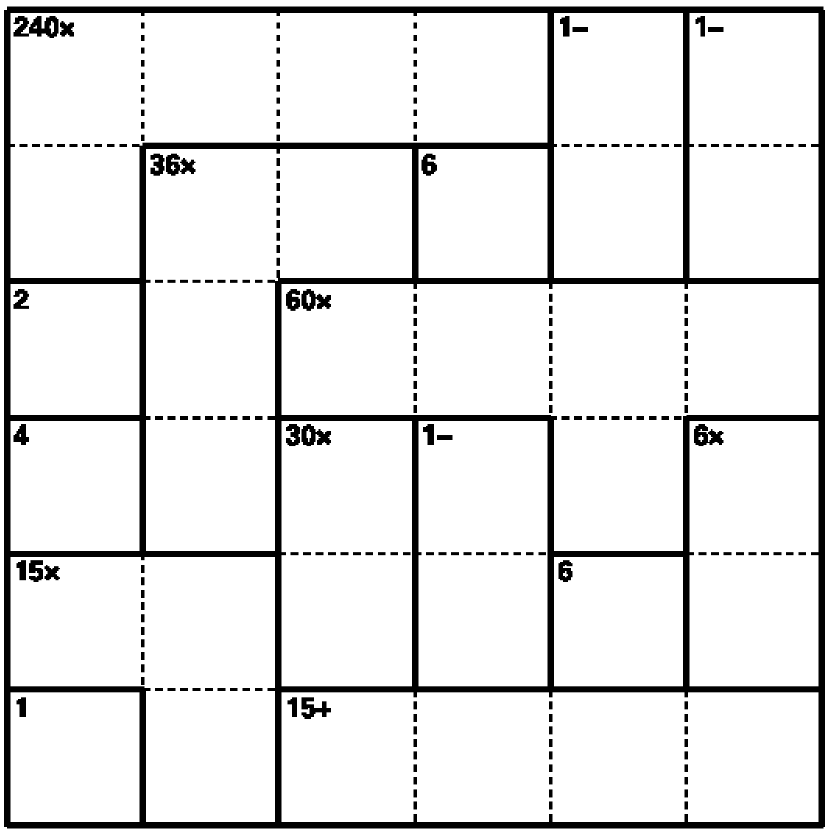
Solution, page 3

	3	9	7				8	
7		1		6		3	4	
	6				5			
		7	2					1
		2		1		9		
6					8	2		
			6				7	
	7	4		5		6		8
	8				7	5	2	

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

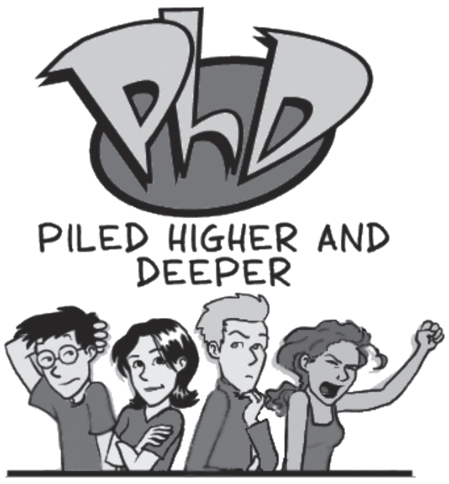
Techdoku

Solution, page 3

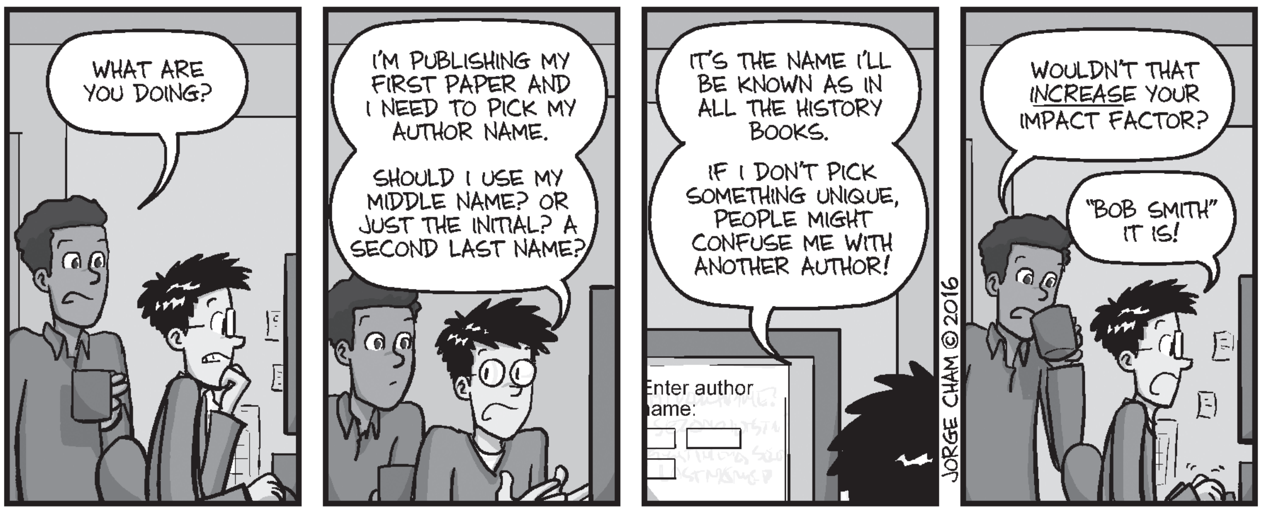


240x				1–	1–
	36x		6		
2		60x			
4		30x	1–		6x
15x				6	
1		15+			

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.


PhD
PILED HIGHER AND DEEPER

by Jorge Cham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Here Are Your Hosts by Clive Probert

Solution, page 3

ACROSS
1 What some guards protect
6 Stare at
10 Some shirts, for short
14 Brown shade
15 Zen question
16 Tenant starter
17 Impersonations
18 Rooster topper
19 Elizabeth I's mom
20 American Ballet Theatre star
23 Learn about
24 Showing approval
27 Offshoot
30 CD flaw
32 Frequent URL ender
33 Big spring
35 Owns
36 Certain sultanate subject
38 Airframe author
42 Telecasting
43 20-vol. lexicon
44 Greek Stoic philosopher
45 Neighbor to Homer
46 Weevils, for example
50 Palme __ (Cannes award)
51 Prolong
53 Future atty.'s exam
55 Australian tennis great
60 Hat piece
62 Flair
63 Closer to fruition
64 Beach party of a sort
65 Boy in la familia
66 Wed in haste
67 Examination
68 Puts away
69 Crammed in

DOWN
1 Bogus plan
2 Some Native Arizonans
3 Sews up
4 Part of NAFTA
5 Assent
6 Iconic shootout site
7 Sticky substance
8 Bemoan
9 All together
10 Lacking flavor
11 Shown to be innocent
12 Secluded spot
13 Kinsey's creator
21 Squirrel away
22 Impromptu
25 "That's all wrong!"
26 Two-flat key
27 Biscotti flavor
28 A Few Good Men director
29 Queensland nuts, in the US
31 Knotted scarf
34 Frat letter
37 Radio frequency meas.
39 __ Day (April observance)
40 Stuffed, in Mexican cuisine
41 "In other words," in full
47 Willamette Valley city
48 "Plus others," in full
49 Hallowed
52 Entire range
54 Patterned fabric
56 Harangue
57 Familiar with
58 Workout count
59 Sloth's habitat
60 PBJ alternative
61 __ de la Paix (Paris shopping street)

1	2	3	4	5	■	6	7	8	9	■	10	11	12	13
14					■	15				■	16			
17					■	18				■	19			
20					21					22			■	■
■	■	■	23				■	24					25	26
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33			34	■	35			■	■	36	37			
38				39				40	41					
42					■	■	43			■	44			
45			■	46	47	48				49	■	50		
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60	61			■	62				■	63				
64				■	65				■	66				
67				■	68				■	69				

Email hacks reveal Clinton’s schedule

Detailed agendas were released

By Michael D. Shear and Matthew Rosenberg
THE NEW YORK TIMES

Hackers on Thursday posted hundreds of emails from a young Democratic operative that contained documents detailing the minute-by-minute schedules and precise movements of the vice president, the first lady and Hillary Clinton during recent campaign fundraisers and official political events.

The emails included names and cellphone numbers of numerous Secret Service agents, spreadsheets with the names and Social Security numbers of campaign donors, and PowerPoint presentations showing step-by-step directions for where officials like Vice President Joe Biden should walk when they arrived at events.

The hackers who posted the emails also distributed what they claimed was a scanned image of the information page from Michelle Obama’s passport, though the authenticity of the image could not be verified.

The emails were stolen from the personal Gmail account of the Democratic operative, Ian Mellul. They reveal how widely White House officials, Clinton campaign operatives and Secret Service agents have exchanged detailed and sensitive information with people using personal email accounts.

There is no indication that Mellul, 22, who was in effect working as a freelancer when the White House or the Clinton campaign needed help, did anything wrong, and government officials declined to talk about the use of the private account.

About a year and a half’s worth of emails from Mellul’s account were posted late Wednesday by the website DCLeaks.com, which earlier this month released a batch of emails from the personal account of Colin L. Powell, the former secretary of state, in which he voiced his scorn for Donald Trump, the Republican presidential nominee, and his personal peeves with Clinton, his Democratic opponent.

The newly released emails do not provide specific security details, but they do reveal the types of movements that top political officials make at such events. If emails were hacked before an event, that could present a more serious security issue.

One document instructed Biden to walk up four steps at a loading dock in Cleveland before climbing 26 steps to a holding room. Another used blue arrows to show the route Clinton should walk through a donor’s house in Houston. Both documents included close-up pictures of the event locations.

Mellul, who volunteered to work as an advance staff member for the White House and the Clinton campaign as he finished his undergraduate education at George Washington University in Washington, declined to comment. “I’ve got to hang up,” he said Thursday when reached on his cellphone.

Cathy L. Milhoan, the director of communications for the Secret Service, said the agency was “aware of the alleged email hacking of a White House staffer.

“Obviously the Secret Service is concerned any time unauthorized information that might pertain to one of the individuals we protect, or our operations, is allegedly disclosed,” she added.

An FBI spokesman said the bureau was looking into the hacking. Josh Earnest, the White House press secretary, said that officials took “any reports about a cyberbreach seriously” and that the episode was “something we are taking a close look at.”

DCLeaks.com is a relatively new website that has posted documents taken from the accounts of prominent figures like Gen. Philip M. Breedlove, the former commander of NATO forces in Europe, and George Soros, a wealthy backer of liberal causes. On the site, its creators describe themselves as American “hacktivists” who aim to “publish a large amount of emails from top-ranking officials and their influence agents all over the world.”

Mellul hardly fits either description. His low-level job ranks just above that of an intern.

The emails from his account document the often mundane process that White House or campaign staff members go through to prepare for an event, including setting up stages, organizing photo lines, arranging for lecterns and coordinating with the Secret Service about getting clearances for all of the people the politician will encounter along the way.

One email contained a spreadsheet with the names and Social Security numbers of almost 100 people scheduled to attend a Houston fundraiser for Clinton. In another exchange, a Secret Service agent discussed how many official “pins” would be provided for hotel staff members to have access to an event. After Mellul said the hotel had requested 50 Secret Service pins, the agent wrote, “Yikes.”

Several of the emails contain what is referred to as a “movement document” or a “site diagram” involving the vice president, the first lady or Clinton. Those emails were often sent to a large number of people, including Mellul. In other cases, Mellul emailed copies of the documents to other campaign or government officials, including Secret Service officials.

“Good morning all,” Mellul wrote on May 20, the day of a Hillary for America fundraiser. “Please find the attached site diagram for Houston’s HFA finance event this evening. Please let us know if you have any questions or concerns. Ian.”

The emails begin in February 2015, when Mellul was in the honors program and studying political science. In the messages, Mellul comes across as a conscientious and courteous young man whose friends would email him for help with their school essays and résumés.

After high school, he jumped into the intern circuit that feeds into entry level jobs in Washington. In 2014, he received a coveted internship at the White House and later parlayed the connections he had made as an intern into low-level freelance work for the White House.

His tryout, it appears, was helping Michelle Obama’s team at a lunch for congressional spouses on April 15, 2015.

In an email two days before the event, Lindsay Drewel, a Washington public relations executive, wrote to Anthony R. Bernal, the deputy chief of staff for Jill Biden, the vice president’s wife, that if Mellul “can survive that crazy event (which we know he will) he’ll be ready to go! Haha.”

After the event, Mellul even included a Secret Service agent in his round of emails thanking those with whom he had worked. And the day after the lunch, the first lady’s office reached out again to see if he could help with an event in Virginia.

Mellul was excited, and in an email to a friend later that day, he noted that he had been told “it takes a few good trips/events before they really trust you.”

On April 20, 2015, five days after his first job with Obama’s team at the congressional lunch, Mellul described himself as “on the advance team” for the first lady in an email to his professor saying he might miss class because of an event.

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ESP

U.S. will deport Haitians without papers

Deportations were suspended post-earthquake

Kirk Semple
THE NEW YORK TIMES

The Obama administration, responding to an extraordinary wave of Haitian migrants seeking to enter the United States, said Thursday that it would fully resume deportations of undocumented Haitian immigrants.

After an earthquake devastated parts of Haiti in 2010, the United States suspended deportations, saying that sending Haitians back to the country at a time of great instability would put their lives at risk. About a year later, officials partly resumed deportations, focusing on people convicted of serious crimes or those considered a threat to national security.

But since spring, thousands of Haitian migrants who had moved to Brazil in search of work have been streaming north, mostly by land, winding up at U.S. border crossings that lead to Southern California.

Few have arrived with American visas, but nearly all have been allowed to enter the United States because immigration officials were prohibited, under the modified deportation policy, from using the fast-track removal process often employed at the border for new, undocumented arrivals.

Instead, the migrants were placed in a slower deportation process and released, with an appointment to appear in immigration court at a later date, officials said. Since early summer, most have been given permission to remain in the country for as long as three years under a humanitarian parole provision, immigrant advocates said.

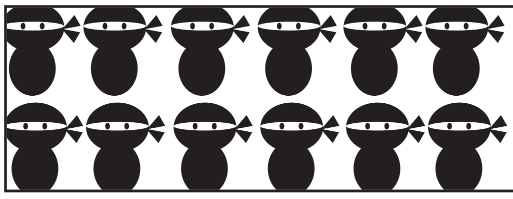
With the full resumption of deportations, which took effect Thursday morning, Haitians who arrive at the border without visas will be put into expedited removal proceedings.

Jeh Johnson, secretary of Homeland Security, said in a statement that conditions in Haiti had "improved sufficiently to permit the U.S. government to remove Haitian nationals on a more regular basis."

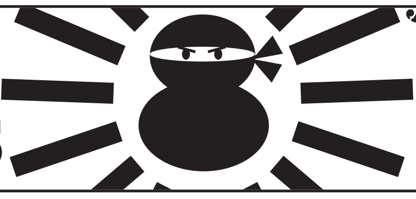
An uptick in deportations might not occur immediately. Removals require the cooperation of and paperwork from the receiving country, and Homeland Security officials said they were still in negotiations with the Haitian government about the policy shift.

In the meantime, officials said, nearly all Haitians stopped at the border and scheduled for accelerated deportations would be put into detention centers.

Haitian immigrants covered by temporary protected status would be unaffected by the change in policy.



WE'RE SEEKING TO BUILD OUR FORCES



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Nanjing Never Cries

A recently published novel by MIT Mathematics Professor Hung Cheng tells the story of four friends caught up in the violence of the Sino-Japanese war (1937 – 1945), including two MIT students, John Winthrop and his classmate, Chinese physicist Calvin Ren.

Thursday

September 29, 2016

MIT, 6-120

7pm talk & reading, reception to follow with an introduction by Dean Michael Sipser

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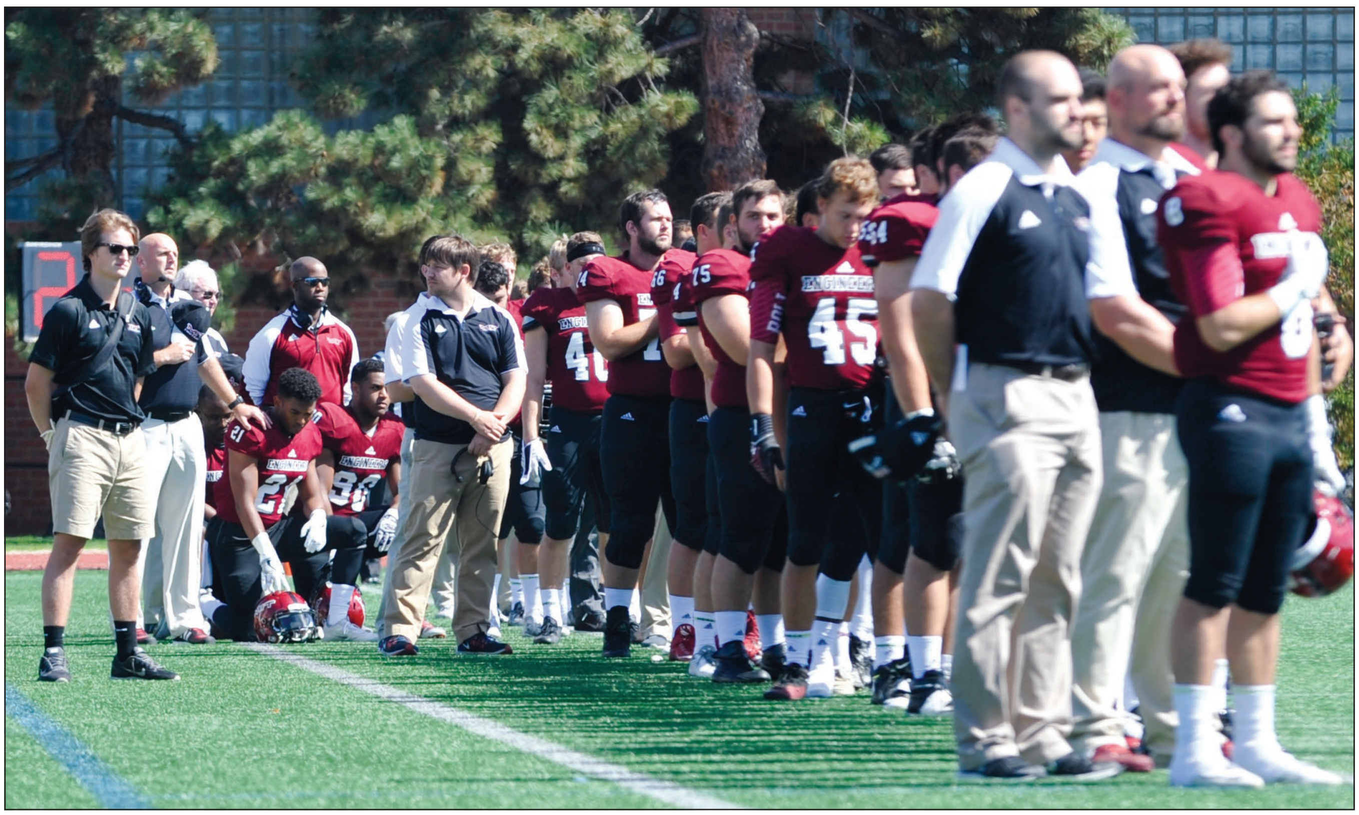
Hung Cheng began his academic career as an assistant professor at MIT in 1965 and became a full professor at MIT in 1969. He is a member of the Academia Sinicia. The confirmation of his prediction with T.T. Wu on the indefinite increase of high energy scattering cross sections was reported on the front page of the *New York Times* in March 1973. He is working on the theory of dark matter. *Nanjing Never Cries* is his first novel.

Co-sponsored by: MIT Chinese Students and Scholars Association (MITCSSA) & The Chinese Writers' Association in Northern America, New England Chapter

SCHOOL OF SCIENCE
Massachusetts Institute of Technology

Football drops third straight home game, will face Maine Maritime Academy this Saturday

DeNucci '19 racks up an interception and a forced fumble to keep MIT in the game



LENNY MARTINEZ—THE TECH

Tremann A. Robbins '17 and other players took a knee as a sign of protest during the pledge of allegiance before last weekend's game against Rennselaer Polytechnic Institute.

By Ahaan Rungta

SPORTS STAFF

Having dropped two home games to begin the season, the MIT Engineers were seeking their first victory against the Rensselaer Polytechnic Institute Engineers. However, five turnovers by MIT proved too big an obstacle to overcome as MIT suffered a 31-10 defeat to begin the season 0-3.

MIT got off to a bright start. After forcing a 3-and-out, the Cardinal and Grey drove down field and capped of its first drive with a 25-yard field goal converted by Tucker Cheyne '17.

The first quarter ended with the scored tied at 3, with QB Udgam Goyal '19 having completed 6 of 6 passes and MIT in RPI territory.

Unfortunately, it was mostly downhill from there as RPI ran back the first of 4 interceptions thrown by Goyal for a TD. It did not help that Chenye missed a 25-yard field goal. Despite a forced fumble recovered by LB Andrew DeNucci '19, Goyal's second interception of the half meant MIT went into halftime trailing 10-3.

The second half was punctuated by two more interceptions and lost fumbles by RB John Robertson '20. For those cheering on the Engineers from the newly built bleachers at the Steinbrenner stadium, DeNucci provided yet another moment of magic taking back an interception for 46 yards to set the offense with 1st-and-goal from the 3-yard line. Robertson redeemed himself, rushing in MIT's first TD of the day and drawing them to within 14 points with 8:10 left to play in the 4th-quarter.

Late rallies have been a pattern for MIT football this season, as the home fans cheered in hope of a third straight legitimate chance at a come-from-behind victory. However, RPI scored soon to seal the game 31-10, ending a roller-coaster game for the MIT Engineers and the RPI Engineers. Quarterback Goyal finished the game 18-32 on passing covering 200 passing yards, but the running plays of RPI got the better of MIT as they collected 243 productive rushing yards over MIT's 141.

Prior to kickoff during the national anthem DB Tremaan Robbins '17, DL Ben Bennington '20, and RB Adis Ojeda '19 knelt as a sign of protest. This is in keeping with a tradition started by San Francisco 49ers' backup QB Colin Kaepernick.

Robbins explained, "We are not protesting anything at MIT but the culture of living in a bubble and not having enough discussions on the racial inequality across the country. I just want people in the MIT community to know that minority students face more than just psets. I am trying to start race and diversity discussions with football and varsity athletics."

He went on to add, "Both head coach Martinovich and my teammates have been very supportive. Although coach differs in opinion with me he supported my right to kneel."

MIT football, still looking for their first season win, will head on the road for the first time this season to face off with Maine Maritime Academy on Sept. 24.

SPORTS BLITZ

Women's soccer (5-3) defeated Salem State 4-1 as Claire O'Callaghan '20 came off the bench and scored twice in a space of 160s.

Women's tennis (5-0) continued their unbeaten streak with a 7-2 victory over Babson College.

Women's volleyball (10-2) defeated Mount Holyoke in straight sets. Carly Staub '19 led the Engineers with 7 kills.

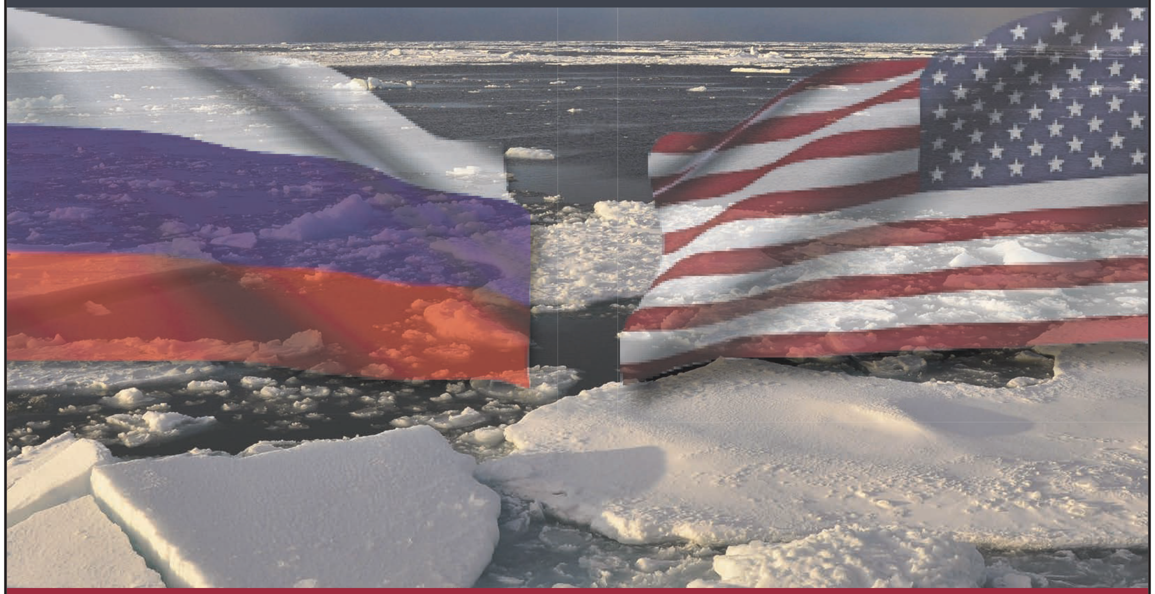
Men's soccer (4-2) dropped a high-scoring 5-3 decision to Wentworth Institute of Technology.

LENNY MARTINEZ—THE TECH

Taylor A. Grey '20 passes the ball to Emily Penn '18 during last Saturday's game against Springfield College. The Engineers won with a score of 4-2.

STARR FORUM

THE WARMING ARCTIC
SITE OF A NEW "COLD WAR"?



Sept. 29th • 4:30-6PM • MIT 4-270
182 Memorial Dr, Cambridge
Free & open to the public - Refreshments served

CAROL SAIVETZ & ELIZABETH WOOD: CO-CHAIRS

LAWRENCE SUSSKIND
MARLENE LARUELLE
KENNETH YALOWITZ

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